

# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/586,500	07/13/2006	Tim Jungkamp	12810-00318-US	4602	
23416 CONNOLLY	7590 10/07/200 BOVE LODGE & HUT	EXAM	EXAMINER		
PO BOX 2207	7	KOSACK,	KOSACK, JOSEPH R		
WILMINGTO	N, DE 19899		ART UNIT	PAPER NUMBER	
			1626		
			MAIL DATE	DELIVERY MODE	
			10/07/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

Application No.	Applicant(s)	
10/586,500	JUNGKAMP ET AL.	
Examiner	Art Unit	
Joseph R. Kosack	1626	

Joseph R. Kosack	-	LAUIIIIICI	ALC OILL	1
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 3 f CFR 1.139(a). In no event, however, may a reply be timely fined after SX (0) MCNTH's from the mailing date of 13 CFR 1.139(a). In no event, however, may a reply be timely fined after SX (0) MCNTH's from the mailing date of 14 in communication.  - Failure to reply within the set or extended period for reply with by shalter, cause the application to become ABANDONED (38 U.S.C. § 133). Any reply received by the Cfice last than three months after the mailing date of this communication, even if timely filled, may reduce any camed patient term adjustment. See 37 CFR 1.704(b).  Status  1) □ Responsive to communication(s) filled on 19 March 2007.  2a) □ This action is FINAL. 2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 11-16 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) 11-16 is/are rejected.  7) □ Claim(s) is/are allowed.  6) □ Claim(s) 11-16 is/are rejected.  7) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) □ The drawing(s) filled on is/are: a) □ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  1				
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Attachment(s)	Attachment(s)			
	1) Notice of References Cited (PTO-892)			
	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P	ate	
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Notice of Draftsperson's Patent Drawing Review (PTO-948)     Paper No(s)/Mail Date	3) V Information Biochesias Statums at (c) (ETF/CE Int)	5) Notice of Informal P	atent Application	

Information Disclosure Statement(s) (PTO/SE/08)
Paper No(s)/Mail Date 7/13/06.

6) Other: \_\_\_\_.

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#### DETAILED ACTION

Claims 11-16 are pending in the instant application.

## Priority

The claim to priority as a 371 filing of PCT/EP05/00777 filed on January 27, 2005, which claims benefit of DE 10 2004 004 683.2 filed on January 29, 2004 is acknowledged in the instant application.

#### Information Disclosure Statement

The Information Disclosure Statement filed on July 13, 2006 has been considered by the Examiner.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
  - Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of Application/Control Number: 10/586,500

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the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 11-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Walter (USPN 3,773,809).

The claims are drawn to an eight step continuous procedure for preparing adiponitrile and methylglutaronitrile. Dependent claims 12-16 provide that the reaction is a homogeneous hydrocyanation of butadiene, that the extractant is anhydrous, that at least part of stream 9 and/or stream 11 is recycled into step (c), that step (g) be a two step distillation, and that stream 9 contains less than 10% by weight of pentenenitriles.

Walter teaches a process for reacting pentennitriles with hydrogen cyanide with a nickel(0)-phosphorus catalyst and a zinc chloride promoter and produces adiponitrile and methylglutaronitrile. See Example 6, columns 8-9. Walter then teaches extraction of the nickel complex from the products and zinc chloride by using cyclohexane. See Example 6, columns 8-9. Finally, Walter teaches the distillation of the extractant to yield a recovered nickel complex. See Example 7, column 9.

Walter does not the distillation for steps b, e, f, g, and h. Walter also does not teach specifically the dependent claims as described above.

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To those of ordinary skill in the art, distillation is a common method for separating liquids from each other and specific techniques such as simple distillation, fractional distillation, dual stage distillation, and vacuum distillation are commonly employed.

Each distillation step not explicitly mentioned by Walter essentially separates a more volatile component from less volatile components with a high degree of specificity for fractional distillation and vacuum distillation. Therefore, the distillation steps cannot be looked at as nov-obvious. As to the dependent claims, it doesn't matter whether the reaction starts from the butadiene or the pentenenitrile stage, the process would run the same as the hydrocyanation of butadiene yields pentenenitriles. The extraction of Walter does not show any water in the list of products, so it can be safely assumed that the extraction is anhydrous. Those of ordinary skill in the art would know that a distilled product steam could be recycled into the reaction process in order to increase the yield of reaction relative to the amount of starting material used.

Therefore, it would be obvious to the person of ordinary skill in the art to expand upon the process of Walter to create a fully continuous process using common distillation techniques in order to generate the instant invention as there is a design need to create synthetic processes that are automatic provide the particular components in a mostly pure, if not fully pure, form

#### Conclusion

Claims 11-16 are rejected.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph R. Kosack whose telephone number is (571)272-5575. The examiner can normally be reached on M-Th 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on (571)-272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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